



STIC Search Report

EIC 1700

STIC Database Tracking Number: 137570

TO: Randall Chin
Location: REM 6D55
Art Unit : 1744
November 10, 2004

Case Serial Number: 10/633461

From: Kendra Mellerson
Location: EIC 1700
REM 4B28
Phone: 571-272-2516

Kendra.Mellerson@uspto.gov

Search Notes

No Cases Reported

US 6,503,981

4,926,517

PATNO'IS 4926517

DATE: NOVEMBER 10, 2004
LIBRARY: PATENT
FILE: ALL

Your search request is:
PATNO IS 4926517

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 4926517 ;. May 22, 1990 , Sweeper, Smith, Keith E. - 1612 S. Combee Rd.,
Lakeland, Florida, United States (US), 33801, 315300 (07)

CORE TERMS: brush, drive, arm, hub, sweeper, hydraulic, cylinder, tube,
mounting, slot ...

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

4926517

<=1> GET 1st DRAWING SHEET OF 3

May 22, 1990

Sweeper

REISSUE: July 31, 2003 - Reissue Application filed Ex. Gp.: 1744; Re. S.N.
10/633,461 (O.G. October 21, 2003)

APPL-NO: 315300 (07)

FILED-DATE: February 24, 1989

GRANTED-DATE: May 22, 1990

CORE TERMS: brush, drive, arm, hub, sweeper, hydraulic, cylinder, tube,
mounting, slot ...

4926517 OR 4,926,517

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

Current session 10/11/2004

(C) QUESTEL 1994

QUESTEL.ORBIT (TM) 1998

10/11/04 20*16*16

Last connection: 05/11/04 21*40*19

WELCOME to QUESTEL.ORBIT- Your Guide to INTELLECTUAL PROPERTY
www.questel.orbit.com - Gateway, documentation & IP resource
- Times of operation of Questel.Orbit service, see INFO HOURS
- EPO Citation Relevancy Codes now searchable in PlusPat file
- New files: Czech, Hungarian, Polish & Lithuanian Trademarks
see CZMARK, HUMARK, PLMARK & LTMARK Fact Sheets on web-site
- 2004 Euro & US Dollar Price Lists available on our web-site
- Enhanced SDI Email Delivery with Links to Download Results
- New Export Feature: improved offline options - INFO EXPORT
- *PatentExaminer portfolio manager available - INFO PATEXAM
..FILE / ..INFO / ..GUIDE

Query/Command : FILE PLUSPAT

QUESTEL - Time in minutes : 0,60
The cost estimation below is based on Questel's
standard price list

Estimated cost :	0.60 USD
Cost estimated for the last database search :	0.60 USD
Estimated total session cost :	0.60 USD

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.
Comprehensive Worldwide Patents database
New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
Announcing enhanced searchability of Relevancy Codes in Search Reports
for EP, WO and FR patents. For more details see below and on QO website
-To retrieve set of high relevancy X coded cited patents, use xctx=yes
-To extract cited patents with only high relevancy code, use mem/xctx
Last update of file: 2004/11/03 (YYYY/MM/DD) 2004-44/UP (basic update)

Search statement 1

Query/Command : US4926517/PN

** SS 1: Results 1

Search statement 2

Query/Command : PRT FULL NONSTOP LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - US4926517 A 19900522 [US4926517]
TI - (A) Sweeper
PA - (A) SMITH KEITH E (US)
IN - (A) SMITH KEITH E (US)
AP - US31530089 19890224 [1989US-0315300]
PR - US31530089 19890224 [1989US-0315300]
IC - (A) E01H-001/02
EC - E01H-001/05C
PCL - ORIGINAL (O) : 015082000; CROSS-REFERENCE (X) : 015179000
015392000
DT - Basic
CT - US3284830; US3879786; GB3720
STG - (A) United States patent
AB - A sweeper includes a support structure having parallel arms which may be moved apart to allow a brush held between the arms to be replaced. Each of the arms has a hub mounted thereon by a universal joint which provides automatic alignment of the two hubs to provide a single axis of rotation for the brush. One of the hubs is connected to a hydraulic drive motor and includes a plurality of slots, one of which receives a drive lug on the interior of the brush which is preferably of the type having a core of a thin metal tube. A raising and lowering mechanism comprises a parallelogram having a hydraulic cylinder in the center for controlling the configuration of the parallelogram. As the brush is raised its support mechanism remains parallel to the vehicle and moves closer to it. A unique stop element is mounted to the hydraulic cylinder to provide a minimum height for the sweeper.

1 / 1 LGST - ©EPO

PN - US4926517 A 19900522 [US4926517]
AP - US31530089 19890224 [1989US-0315300]
ACT - 20031021 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030731
UP - 2003-44

1 / 1 CRXX - ©CLAIMS/RRX

PN - 4,926,517 A 19900522 [US4926517]
PA - Smith, Keith E
ACT - 20030731 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20031021
REISSUE REQUEST NUMBER: 10/633461
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1744

Reissue Patent Number:

Search statement 2

Query/Command : FILE INPADOC

PLUSPAT - Time in minutes : 0,46

The cost estimation below is based on Questel's standard price list

Estimated cost :	1.11 USD
Records displayed and billed :	1
Estimated cost :	1.32 USD
Cost estimated for the last database search :	2.43 USD
Estimated total session cost :	3.03 USD

LGST - Time in minutes : 0,11

The cost estimation below is based on Questel's standard price list

Estimated cost :	0.13 USD
Records displayed and billed :	1
Estimated cost :	0.60 USD
Legal-Status informations :	1
Estimated cost :	0.50 USD
Cost estimated for the last database search :	1.23 USD
Estimated total session cost :	4.26 USD

CRXX - Time in minutes : 0,16

The cost estimation below is based on Questel's standard price list

Estimated cost :	0.29 USD
Records displayed and billed :	1
Estimated cost :	5.50 USD
Legal-Status informations :	1
Estimated cost :	0.50 USD
Cost estimated for the last database search :	6.29 USD
Estimated total session cost :	10.55 USD

LITA - Time in minutes : 0,01

The cost estimation below is based on Questel's standard price list

Estimated cost :	0.02 USD
Cost estimated for the last database search :	0.02 USD
Estimated total session cost :	10.57 USD

Selected file: INPADOC

You are now connected to INPADOC

Covers 1968/1973 thru weekly updates (2004-45)

For information on content, (...)INFO INPD.

Search statement 1

Query/Command : FAM US4926517/PN

1 Patent Groups

** SS 1: Results 2

Search statement 2

Query/Command : FAMSTATE NONSTOP

1/2 INPADOC - ©INPADOC

PN - CA 1334886 A1 19950328 [CA1334886]
TI - SWEEPER
LA - ENG
IN - SMITH KEITH E [US]
PA - SMITH KEITH E [US]
AP - CA 613419/89-A 19890927 [1989CA-0613419]
PR - US 315300/89-A 19890224 [1989US-0315300]
IC - E01H-001/00

1/1 LEGALI - ©EPO

PN - CA1334886 C 19950328 [CA1334886]
AP - CA613419 19890927 [1989CA-0613419]
ACTE - 20030403 CA/MKLA-A [-]
LAPSED
EFFECTIVE DATE: 20000328
UP - 2004-11

2/2 INPADOC - ©INPADOC

PN - US 4926517 A 19900522 [US4926517]
TI - SWEEPER
IN - SMITH KEITH E [US]
PA - SMITH KEITH E [US]
AP - US 315300/89-A 19890224 [1989US-0315300]
PR - US 315300/89-A 19890224 [1989US-0315300]
IC - E01H-001/02

1/1 LEGALI - ©EPO

PN - US4926517 A 19900522 [US4926517]
AP - US31530089 19890224 [1989US-0315300]

ACTE - 20031021 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030731

UP - 2003-44

Search statement 2